TITLE 327 WATER POLLUTION CONTROL DIVISION

FINDINGS AND DETERMINATION OF THE COMMISSIONER PURSUANT TO IC 13-14-9-7 AND SECOND NOTICE OF COMMENT PERIOD

LSA Document #16-3

CAFO AND CFO REFERENCE UPDATE

PURPOSE OF NOTICE

The Indiana Department of Environmental Management (IDEM) has developed draft rule language for amendments to 327 IAC 15-16 and 327 IAC 19, concerning concentrated animal feeding operations (CAFO) and confined feeding operations (CFO), to update references to the Indiana Natural Resources Conservation Service (NRCS) Nutrient Management Conservation Practice Standards Codes 313, 360, 521A, 521B, 521C, 590, 633, and 656, and the construction specification for concrete construction. The Code of Federal Regulations (CFR) incorporated into the rules will also be updated to the 2014 edition. Formatting, typographical errors, and references to websites will also be updated and corrected. The amendments will not change rule requirements in a substantive way. The purpose of this notice is to seek public comment on the draft rule, including suggestions for specific language to be included in the rule. IDEM seeks comment on the affected citations listed and any other provisions of Title 327 that may be affected by this rulemaking.

CITATIONS AFFECTED: 327 IAC 15-16-2; 327 IAC 15-16-4; 327 IAC 15-16-7; 327 IAC 15-16-9; 327 IAC 19-1-4; 327 IAC 19-6-1; 327 IAC 19-11-1; 327 IAC 19-12-1; 327 IAC 19-12-3; 327 IAC 19-12-4; 327 IAC 19-12-5; 327 IAC 19-14-4; 327 IAC 19-14-6; 327 IAC 19-15-2.

AUTHORITY: IC 13-14-8-1; IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4.

STATUTORY REQUIREMENTS

<u>IC 13-14-9-7</u> recognizes that under certain circumstances it may be appropriate to reduce the number of public comment periods routinely provided. In cases where the commissioner determines that the rulemaking policy alternatives available to IDEM are so limited that the first notice of public comment period would provide no substantial benefit to the environment or persons to be regulated or otherwise affected by the proposed rule, IDEM may forgo this comment period and proceed directly to the notice of second public comment period.

If the commissioner makes the determination of limited rulemaking policy alternatives required by <u>IC 13-14-9-7</u>, the commissioner shall prepare written findings and include them in the second notice of public comment period published in the Indiana Register. This document constitutes the commissioner's written findings pursuant to IC 13-14-9-7.

The statute provides for this shortened rulemaking process if the commissioner determines that "the rulemaking policy alternatives available to the department are so limited that the public notice and comment period under [IC 13-14-9-3] . . . would provide no substantial benefit to:

- (1) the environment; or
- (2) persons to be regulated or otherwise affected by the proposed rule.".

BACKGROUND

CAFOs and CFOs are livestock and poultry operations that produce potential water contaminants, such as manure and process wastewaters. The rules are designed to protect Indiana's water resources from the contamination. This rulemaking is limited in scope and purpose. IDEM proposes to update references to Indiana NRCS Nutrient Management Conservation Practice Standards and the CFR, and to correct formatting and typographical errors.

IDEM incorporates NRCS standards to provide sources of detailed information for rule requirements. The purpose of NRCS standards for this rulemaking is nutrient management. The new editions of the NRCS codes reflect the current practice standards of the United States Department of Agriculture (USDA). The newest editions will be used for the updates to the NRCS codes.

- Code 313 provides standards for waste storage facilities that contain liquid manure. This will be updated from the September 2005 edition to the October 2014 edition.
- Code 360 provides standards for the decommissioning and closure of a manure storage structure. This will be updated from the October 2004 edition to the November 2012 edition.
- Codes 521A, 521B, and 521C provide standards for liners in manure storage ponds. Code 521A will be updated from the October 2006 edition to the October 2013 edition. Codes 521B and 521C will be updated from the October 2006 edition to the October 2011 edition.
- Code 590 provides standards for soil testing for purposes of nutrient management. This will be updated from the July 2001 edition to the October 2013 edition.

- Code 656 provides standards for constructed wetlands. This will be updated from the October 2006 edition to the November 2012 edition.
- The construction specification for concrete construction provides standards for constructing a concrete manure storage structure. This will be updated from the October 2005 edition to the May 2015 edition.
 NRCS Code 633 has been retired from publication and some requirements, such as sampling frequencies and setbacks, have been incorporated into NRCS Code 590. References to NRCS Code 633 will be updated to NRCS Code 590.

The primary goal of the NRCS updates is to use the most modern engineering standards and provide clarity to daily management practices that reflect current industry standards. IDEM received requests from regulated entities to use the up to date standards as new permit and renewal applications were submitted. Failure to update the standards in the rules means that when a regulated entity wants to use the most current standards, they must seek a variance from the stated rule requirements. This places an unnecessary burden on the regulated entity without providing any environmental benefit. Updated standards are more accessible to interested parties. In addition to noting the requests in the new permit and renewal applications, IDEM reached out to a cross section of interested stakeholders. IDEM was informed that there is no appreciable difference in cost to a regulated entity to use the newly updated standards and that the updated standards are preferred.

Updating Indiana rules to the most current version of the CFR provides consistency between Indiana rules and federal regulations. Such consistency makes expectations clear to the regulated community. As with the updated NRCS standards, it is easier for interested parties to access the updated CFR sections. Updating the CFR references in the rules will not change substantive requirements within the rules. The CFR is codified annually, but updates do not mean that the actual regulatory language has changed. If a provision within an incorporated CFR section does change, the change would be identified and noted. There have been no substantive changes made to the federal regulations referenced in the CAFO and CFO rules subject to this rulemaking.

The purpose of fixing formatting, typographical errors, and references to websites is to clarify understanding of the rules as written. None of the proposed rule amendments will have a substantive effect on the scope or the intended application of either the cited federal law or state regulations.

IC 13-14-9-4 Identification of Restrictions and Requirements Not Imposed under Federal Law

No element of the draft rule imposes either a restriction or a requirement on persons to whom the draft rule applies that is not imposed under federal law and current Indiana rules. This draft rule imposes no restrictions or requirements because it is a direct adoption of federal requirements that are applicable to Indiana and contains technical amendments that have no substantive effect on the scope or application of the federal rule or on an existing Indiana rule.

Potential Fiscal Impact

Complying with these proposed amendments will not impose any additional fiscal impact beyond what is currently required under existing federal law and state CAFO and CFO rules. The proposed amendments will update references to CFR and USDA NRCS standards and correct formatting and typographical errors within the rules. There will be no changes to the rules affecting the scope or the intended application of the rule. The updated standards serve the same purpose but use updated engineering technology to achieve the purpose. Many of the updated NRCS standards are already in use by the regulated community. IDEM reached out to a cross section of stakeholders and, based on the information gathered, there is no appreciable difference in cost to a regulated entity to use the newly updated standards. However, currently in order to use them a variance must be granted, and this comes at a cost. Updating the standards eliminates this burdensome and time consuming administrative process resulting in a savings to the regulated community and IDEM.

Public Participation and Work Group Information

At this time, no work group is planned for the rulemaking. If you feel that a work group or other informal discussion on the rule is appropriate, please contact Lauren Aguilar, Rules Development Branch, Office of Legal Counsel at (317) 234-8559 or (800) 451-6027 (in Indiana).

Small Business Assistance Information

IDEM established a compliance and technical assistance program (CTAP) under IC 13-28-3. The program provides assistance to small businesses and information regarding compliance with environmental regulations. In accordance with IC 13-28-3 and IC 13-28-5, there is a small business assistance program ombudsman to provide a point of contact for small businesses affected by environmental regulations. Information on the CTAP, the monthly CTAP newsletter, and other resources available can be found at:

www.in.gov/idem/ctap

For purposes of <u>IC 4-22-2-28.1</u>, small businesses affected by this rulemaking may contact the Small Business Regulatory Coordinator:

Patricia Daniel IDEM Small Business Regulatory Coordinator IGCN 1316 100 North Senate Avenue Indianapolis, IN 46204-2251 (317) 234-6562 or (800) 988-7901

ctap@idem.in.gov

For purposes of IC 4-22-2-28.1, the Small Business Ombudsman designated by IC 4-4-35-8 is:

Erik Scheub

Office of Small Business and Entrepreneurship

One North Capitol, Suite 600

Indianapolis, IN 46204

(317) 232-5679

ombudsman@osbe.in.gov

Resources available to regulated entities through the small business ombudsman include the ombudsman's duties stated in <u>IC 4-4-35-8</u>, specifically <u>IC 4-4-35-8(9)</u>, investigating and attempting to resolve any matter regarding compliance by a small business with a law, rule, or policy administered by a state agency, either as a party to a proceeding or as a mediator.

The Small Business Assistance Program Ombudsman is:

Steven N. Howell

IDEM Small Business Assistance Program Ombudsman

IGCN 1301

100 North Senate Avenue

Indianapolis, IN 46204-2251

(317) 232-8587 or (800) 451-6027

snhowell@idem.in.gov

FINDINGS

The commissioner of IDEM has prepared findings regarding rulemaking on reference updates in the CAFO and CFO rules. These findings are prepared under <u>IC 13-14-9-7</u> and are as follows:

- (1) This rule updates references to materials previously incorporated by reference into the regulations. The updated materials contain no amendments that have a substantive effect on the scope or intended application of the federal rule in Indiana, and technical amendments have no substantive effect on existing Indiana rules.
- (2) The environment and persons regulated or otherwise affected by the proposed rule will benefit from prompt adoption of this rule, because it will allow regulated entities to stay up to date with current USDA practice standards without having to seek a variance on a case-by-case basis and will allow interested parties easier accessibility to the standards.
- (3) I have determined that under the specific circumstances pertaining to this rule, the rulemaking policy alternatives are so limited that the public notice and comment period provided in the notice of first public comment period would provide no substantial benefit to the environment or to persons to be regulated or otherwise affected by the rule.
- (4) The draft rule is hereby incorporated into these findings.

Carol S. Comer

Commissioner

Indiana Department of Environmental Management

REQUEST FOR PUBLIC COMMENTS

This notice requests the submission of comments on the draft rule language, including suggestions for specific revisions to language to be contained in the draft rule. Comments may be submitted in one of the following ways:

(1) By mail or common carrier to the following address:

LSA Document #16-3 CAFO and CFO Reference Update

Lauren Aguilar

Rules Development Branch

Office of Legal Counsel

Indiana Department of Environmental Management

Indiana Government Center North

100 North Senate Avenue

Indianapolis, IN 46204-2251

- (2) By facsimile to (317) 233-5970. Please confirm the timely receipt of your faxed comments by calling the Rules Development Branch at (317) 232-8922.
- (3) By electronic mail to laguilar@idem.in.gov. To confirm timely delivery of submitted comments, please request a document receipt when sending the electronic mail. **PLEASE NOTE: Electronic mail comments**

will NOT be considered part of the official written comment period unless they are sent to the address indicated in this notice.

(4) Hand delivered to the receptionist on duty at the thirteenth floor reception desk, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Indianapolis, Indiana.

Regardless of the delivery method used, to properly identify each comment with the rulemaking action it is intended to address, each comment document must clearly specify the LSA document number of the rulemaking.

COMMENT PERIOD DEADLINE

All comments must be postmarked, faxed, or time stamped not later than February 19, 2016. Hand-delivered comments must be delivered to the appropriate office by 4:45 p.m. on the above-listed deadline date.

Additional information regarding this action may be obtained from Lauren Aguilar, Rules Development Branch, Office of Legal Counsel, (317) 234-8559 or (800) 451-6027 (in Indiana).

DRAFT RULE

SECTION 1. 327 IAC 15-16-2 IS AMENDED TO READ AS FOLLOWS:

327 IAC 15-16-2 Incorporation by reference

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14-12; IC 13-18; IC 13-30

Sec. 2. (a) **For purposes of this rule** the following are incorporated by reference, revised as of July 1, 2009, **2014**, except as provided in subsection (e): **(b):**

- (1) 40 CFR 122.21*.
- (2) 40 CFR 122.23*.
- (3) 40 CFR 122.42(e)*.
- (4) 40 CFR 122.63(h)*.
- (5) 40 CFR 412*.

(b) Federal regulations that have been incorporated by reference do not include any later amendments than those specified in the incorporation citation in subsection (a). Sales of the Code of Federal Regulations are handled by the Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000, or online at http://bookstore.gpo.gov/. The incorporated materials are available for public review at the offices of the department of environmental management.

- (e) (b) The following are exceptions to the incorporations by reference in subsection (a):
- (1) Delete the following phrases wherever they occur:
 - (A) "proposes to discharge".
 - (B) "or proposes to discharge".
 - (C) "propose to discharge".
 - (D) "or propose to discharge".
- (2) In 40 CFR 122.23(d)(1), delete "A CAFO proposes to discharge if it is designed, constructed, operated, or maintained such that a discharge will occur.".
- (3) Delete 40 CFR 122.23(e)(2).
- (4) Delete 40 CFR 122.23(f) and substitute the following: Any CAFO that discharges must obtain permit coverage under paragraph (d)(1) of this section.
- (5) Delete 40 CFR 122.23(i).
- (6) Delete 40 CFR 122.23(i).

*These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20402, viewed at www.gpo.gov, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 15-16-2</u>; filed Feb 6, 2012, 2:50 p.m.: <u>20120307-IR-327090213FRA</u>, eff Jul 1, 2012)

SECTION 2. 327 IAC 15-16-4 IS AMENDED TO READ AS FOLLOWS:

327 IAC 15-16-4 Definitions

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14-12; IC 13-18; IC 13-30

Sec. 4. **In addition to** the definitions in <u>IC 13-11-2</u>, <u>327 IAC 5-1.5</u>, <u>327 IAC 19-2</u>, and 40 CFR 122.23, and the following definitions apply throughout this rule:

- (1) "Agricultural storm water discharge" means a precipitation related discharge from a land application area where the manure, litter, or process wastewater has been applied in accordance with this rule and site-specific nutrient management practices to ensure the agronomic utilization of the nutrients in the manure, litter, or process wastewater as provided in 33 U.S.C. 1362(14) and 40 CFR 122.23(e).
- (2) "CFO approval" means a valid approval issued by the commissioner under 327 IAC 19.
- (3) "Manure storage area" means any area where manure is kept. The term includes but is not limited to, the following areas:
 - (A) Lagoons.
 - (B) Runoff ponds.
 - (C) Storage sheds.
 - (D) Stockpiles.
 - (E) Under house or pit storage.
 - (F) Liquid impoundments.
 - (G) Static piles.
 - (H) Composting piles.
- (4) "NRCS 590 standard" means the Indiana Natural Resources Conservation Service (NRCS) Nutrient Management Conservation Practice Standard, Code 590, July 2001, available from the Natural Resources Conservation Service, Indiana Field Office, 6013 Lakeside Boulevard, Indianapolis, Indiana 46278-2933 or online at http://www.in.nrcs.usda.gov/. The standard may be viewed and copied at IDEM Office of Land Quality, 100 North Senate Avenue, Eleventh Floor, Indianapolis, Indiana.
- (5) (4) "One hundred (100) year, twenty-four (24) hour rainfall event" means a twenty-four (24) hour precipitation event with a probable recurrence interval of once in one hundred (100) years, as determined using NOAA Atlas 14, "Precipitation-Frequency Atlas of the United States, Volume 2 Version 3.0", revised 2006*.
- (6) (5) "Overflow" means the discharge of manure or process wastewater resulting from the filling of wastewater or manure storage structures beyond the point at which no more manure, process wastewater, or storm water can be contained by the structure.
- (7) (6) "Setback" means a specified distance from surface waters or potential conduits to surface waters where manure, litter, and process wastewater may not be land applied. Examples of conduits or potential conduits include but are not limited to, the following:
 - (A) Open tile line intake structures.
 - (B) Sinkholes.
 - (C) Agricultural well heads.
- (8) (7) "Twenty-five (25) year, twenty-four (24) hour rainfall event" means a twenty-four (24) hour precipitation event with a probable recurrence interval of once in twenty-five (25) years, as determined using NOAA Atlas 14, "Precipitation-Frequency Atlas of the United States, Volume 2 Version 3.0", revised 2006*.

*Copies are available from the National Weather Service, Office of Hydrologic Development, 1325 East West Highway, Silver Spring, MD 20910 or online at http://www.nws.noaa.gov/oh/hdsc/currentpf.htm.

(Water Pollution Control Division; <u>327 IAC 15-16-4</u>; filed Feb 6, 2012, 2:50 p.m.: <u>20120307-IR-327090213FRA</u>, eff Jul 1, 2012)

SECTION 3. 327 IAC 15-16-7 IS AMENDED TO READ AS FOLLOWS:

327 IAC 15-16-7 Performance standards and effluent limitations

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14-12; IC 13-18; IC 13-30

Sec. 7. (a) All permitted CAFOs must comply with the requirements of 327 IAC 19-3-1.

- (b) Animals in any confinement area must not have direct access to waters of the state.
- (c) There shall be no A discharge of process wastewater pollutants to waters of the state is prohibited, except as described in subsection (d).
- (d) Whenever rainfall events cause an overflow of process wastewater from a facility designed, constructed, operated, and maintained to contain all process wastewater generated in addition to the runoff from a twenty-five (25) year, twenty-four (24) hour rainfall event for the location of the point source, process wastewater pollutants in the overflow may be discharged into waters, provided that the production area is operated in accordance with the additional requirements of 40 CFR 412.37(a)* and 40 CFR 412.37(b)*.
- (e) Any discharges by operations permitted under this rule may not cause an exceedence exceedance of a water quality standard under 327 IAC 2.
- (f) Permitted CAFOs must meet the following requirements and effluent limitations for the CAFO production areas as of the date of permit coverage:
 - (1) There must be no A discharge of manure, litter, or process wastewater pollutants to waters of the state is prohibited.
 - (2) Whenever rainfall events cause an overflow of process wastewater from a structure designed, constructed, operated, and maintained to contain all process wastewater including the direct precipitation and runoff from a twenty-five (25) year, twenty-four (24) hour rainfall event for the location of the point source, process wastewater pollutants in the overflow may be discharged into waters, provided that the production area is operated in accordance with the requirements of subdivision subdivisions (3) through (7).
 - (3) Conduct weekly visual inspections of all of the following:
 - (A) Storm water diversion devices.
 - (B) Runoff diversion devices.
 - (C) Devices channeling contaminated storm water to the process wastewater and manure storage structure.
 - (D) Manure, litter, and process wastewater impoundments, noting the level in open surface liquid impoundments as indicated by the depth marker.
 - (4) Conduct daily inspection of all water lines that may come in contact with or impact manure, litter, or process wastewater in and around the production area. Such Water lines include drinking water lines for livestock.
 - (5) Correct any deficiencies found in inspections as soon as possible.
 - (6) Do not dispose of mortalities in a liquid manure or process wastewater system. Mortalities must be handled in such a way as to prevent the discharge of pollutants to surface water.
 - (7) Maintain, within the operating record required under section 11 of this rule, for a period of five (5) years from the date of creation, a complete copy of the following records:
 - (A) Records documenting self-inspections.
 - (B) Weekly records of the depth of manure and process wastewater in the open surface liquid impoundment, as indicated by the depth marker.
 - (C) Records of actions taken to correct deficiencies. Deficiencies not corrected within thirty (30) days of discovery must be accompanied by an explanation of the factors preventing immediate correction.
 - (D) Records of mortality management and practices.
 - (E) Records documenting the current design of any manure, litter, or process wastewater storage structures, including volume for solids accumulation, design treatment volume, total design volume, and approximate number of days of storage capacity.
 - (F) Records of the date, time, and estimated amount of any overflow.
- (g) For the land upon which the CAFO applies manure, the records described in <u>327 IAC 19-14-3</u>(f) must be maintained in the operating record for a period of five (5) years from the date of permit coverage.

*These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20402, viewed at www.gpo.gov, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; 327 IAC 15-16-7; filed Feb 6, 2012, 2:50 p.m.: 20120307-IR-327090213FRA, eff

Jul 1, 2012)

SECTION 4. 327 IAC 15-16-9 IS AMENDED TO READ AS FOLLOWS:

327 IAC 15-16-9 Nutrient management requirements

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18

Sec. 9. (a) CAFOs The owner/operator of a CAFO must conduct manure, litter, and process wastewater testing for nitrogen and phosphorus annually. Soil sampling and testing must be conducted at a minimum of once every three (3) years. Owners or operators may use the most recent data required under 327 IAC 19-7-5 to meet this requirement after the effective date of this rule.

- (b) Owners or operators shall use the protocols listed in the **Indiana** NRCS **Nutrient Management Conservation Practice Standard, Code** 590: standard **Nutrient Management, October 2013*** for sampling and testing of soil, manure, litter, and process wastewater.
- (c) When developing the nutrient management plan required by 40 CFR 122.42(e)**, the owner or operator shall follow:
 - (1) the Indiana Comprehensive Nutrient Management Plan Statement of Work, April 9, 2004***; available from the Natural Resources Conservation Service, Indiana Field Office, 6013 Lakeside Boulevard, Indianapolis, Indiana 46278-2933 or the department, or available online at http://www.in.nrcs.usda.gov/;
 - (2) the Purdue University Manure Management Planner****; available for use online at http://www.agry.purdue.edu/mmp/; or
 - (3) an equivalent program that meets all requirements of 40 CFR 122.42(e)**.
 - (d) Manure application rates must be in accordance with 327 IAC 19-14-3.
- (e) Except as otherwise provided under this section, application of manure, litter, and process wastewater must be in accordance with the setbacks in 327 IAC 19-14-6.
 - (f) Manure, litter, or process wastewater must be applied to the land in accordance with 327 IAC 19-14-4.
- (g) Land application sites must be inspected to identify any field tile outlets under or immediately bordering the land application site in accordance with <u>327 IAC 19-14-6</u>.
 - (h) Spray irrigation must be done in accordance with the requirements in 327 IAC 19-14-5.
 - (i) Marketing of manure must be done in accordance with the requirements of 327 IAC 19-14-7.
- (j) In accordance with 40 CFR 122.42(e)**, the department shall **provide** public notice **of** substantial changes to the nutrient management plan for seven (7) days after receipt of the changes. The owner/operator may not implement the changes until after:
 - (1) closure of the comment period; and
 - (2) notification of approval by the department.
- (k) Submittal of a nutrient management plan under this section by a CAFO that meets the requirements of this section satisfies the requirements of IC 13-18-10-2.3 regarding submission of a manure management plan.

*This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://www.in.nrcs.usda.gov/, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

**This document is incorporated by reference. Copies may be obtained online at www.gpo.gov or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

***This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://efotg.nrcs.usda.gov/references/public/IN/sowINcnmp.doc, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

****This program is available for use online at: http://www.purdue.edu/agsoftware/mmp/.

(Water Pollution Control Division; <u>327 IAC 15-16-9</u>; filed Feb 6, 2012, 2:50 p.m.: <u>20120307-IR-327090213FRA</u>, eff Jul 1, 2012)

SECTION 5. 327 IAC 19-1-4 IS ADDED TO READ AS FOLLOWS:

327 IAC 19-1-4 Incorporation by reference

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10-1; IC 13-30

Sec. 4. (a) For purposes of this article, the following are incorporated by reference, revised as of July 1, 2014, except as provided in subsection (b):

- (1) 40 CFR 122.23*.
- (2) 40 CFR 122.42(e)*.
- (b) The following are exceptions to the incorporations by reference in subsection (a):
- (1) Delete the following phrases wherever they occur:
 - (A) "proposes to discharge".
 - (B) "or proposes to discharge".
 - (C) "propose to discharge".
 - (D) "or propose to discharge".
- (2) In 40 CFR 122.23(d)(1), delete "A CAFO proposes to discharge if it is designed, constructed, operated, or maintained such that a discharge will occur.".
- (3) Delete 40 CFR 122.23(e)(2).
- (4) Delete 40 CFR 122.23(f) and substitute the following: Any CAFO that discharges must obtain permit coverage under paragraph (d)(1) of this section.
- (5) Delete 40 CFR 122.23(i).
- (6) Delete 40 CFR 122.23(i).

*These documents are incorporated by reference. Copies may be obtained online at www.gpo.gov or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; 327 IAC 19-1-4)

SECTION 6. 327 IAC 19-6-1 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-6-1 Existing confined feeding operations

Authority: <u>IC 13-14-8-7</u>; <u>IC 13-15-2-1</u>; <u>IC 13-18-10-4</u>

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10-1; IC 13-30

Sec. 1. (a) All CFOs must be maintained and operated in compliance with all applicable:

- (1) state laws; and
- (2) approval conditions.
- (b) The owner/operator of a CFO with an existing approval before the effective date of this article shall comply with the following requirements by the effective date of this article:
 - (1) Operational requirements in <u>327 IAC 19-13</u>, except the owner/operator shall comply with <u>327 IAC 19-13-4</u> within ninety (90) days of the effective date of this article.
 - (2) Manure application requirements in <u>327 IAC 19-14</u>.
 - (3) Manure management plan requirements in IC 13-18-10-2.3, and as described in 327 IAC 19-7-5.
 - (4) Closure requirements in 327 IAC 19-16.
- (c) An approval amendment is required for an increase in the amount of manure generated that reduces the storage capacity to less than the required storage capacity at the time of the most recent approval.
- (d) Any increase in animal capacity or manure containment capacity requires a new application under <u>IC 13-18-10-1</u> and the requirements therein.
- (e) A facility that becomes a regulated CFO after the effective date of this article that contains existing waste management systems not previously regulated under this title may be required to modify them to meet the requirements of this article if necessary to protect human health and the environment. The commissioner shall provide written documentation describing the basis for any modifications.

(Water Pollution Control Division; <u>327 IAC 19-6-1</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 7. 327 IAC 19-11-1 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-11-1 Applicability

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10

Sec. 1. (a) All CFOs that are defined as concentrated animal feeding operations (CAFOs) in 40 CFR 122.23(b)(2)* and all CAFOs with a NPDES permit must meet the storm water requirements in 40 CFR 122.23(e)* and 40 CFR 122.42(e)(1)* through 40 CFR 122.42(e)(2)*.

(b) All CFOs not defined as a CAFO in subsection (a) must comply with section 2 of this rule.

*These documents are incorporated by reference. Copies may be obtained online at www.gpo.gov or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-11-1</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 8. 327 IAC 19-12-1 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-12-1 Applicability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. (a) This rule applies to waste management systems approved for construction after the effective date of this article.

(b) Indiana NRCS conservation practice standards and construction specifications are available from the Natural Resources Conservation Service, Indiana Field Office, 6013 Lakeside Boulevard, Indianapolis, Indiana

46278-2933 or online at http://www.in.nrcs.usda.gov/. The standards may be viewed and copied at IDEM Office of Land Quality, 100 North Senate Avenue, Eleventh Floor, Indianapolis, Indiana.

(Water Pollution Control Division; <u>327 IAC 19-12-1</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 9. 327 IAC 19-12-3 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-12-3 Setbacks

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

- Sec. 3. (a) Waste management systems must be located to maintain the minimum setback distances from the following features that are known and identifiable at the time an application is submitted for approval:
 - (1) One thousand (1,000) feet from a public water supply well or public water supply surface intake structure.
 - (2) Except for subsection (c), three hundred (300) feet from the following:
 - (A) Surface water.
 - (B) Drainage inlets, including water and sediment control basins.
 - (C) Sinkholes, as measured from the surficial opening or the lowest point of the feature.
 - (D) Off-site water wells.
 - (3) One hundred (100) feet from the following:
 - (A) On-site water wells.
 - (B) Property lines.
 - (C) Public roads.
 - (4) Four hundred (400) feet from existing off-site residential and public buildings.
- (b) A manure storage facility that contains solid manure must be maintained to have a minimum setback of one hundred (100) feet from the features in subdivision subsection (a)(2) but must comply with the setbacks in subdivisions subsection (a)(1), and (a)(3), through and (a)(4).
- (c) If one (1) of the features in subsection (b) is constructed within the specified setback distances to an existing waste management system, a new waste management system may be constructed to maintain the same setback between the existing waste management system and the feature, providing that the feature was:
 - (1) not under the control of the owner/operator of the CFO; and
 - (2) constructed after the application for original waste management system was submitted to the department.
- (d) The owner/operator may obtain a reduced setback under <u>327 IAC 19-5</u> by demonstrating to the commissioner that a different compliance approach meets the performance standards in <u>327 IAC 19-3-1</u>.
- (e) The property line setback distances in this section may be waived in writing by the owner of the adjoining property.

(Water Pollution Control Division; <u>327 IAC 19-12-3</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 10. 327 IAC 19-12-4 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-12-4 Storage capacity and design requirements

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

- Sec. 4. (a) An alternate design may be approved by the commissioner if it is shown to provide an equivalent amount of environmental protection.
- (b) All waste management systems must be designed to not discharge to surface waters of the state. If a waste management system discharges or is designed to discharge, a NPDES CAFO permit under 40 CFR

122.23*, is required.

- (c) All manure storage facilities for the CFO must be designed, constructed, and maintained with a combined storage capacity of at least one hundred eighty (180) days storage for the following:
 - (1) All materials entering the manure storage facility.
- (2) If applicable, the expected precipitation and runoff from a twenty-five (25) year, twenty-four (24) hour precipitation event that falls on the drainage area around the manure storage facility that contains liquid. Calculations for manure excretion characteristics must be based on ASAE D384.2: Manure Production and Characteristics, March 2005**. available from the American Society of Agricultural and Biological Engineers, 2950 Niles Road, St. Joseph, Michigan 49085-9659, or online at http://evo31.ae.iastate.edu/ifafs/doc/pdf/ASAE_D384.2.pdf.
- (d) All liquid manure storage facilities must be constructed according to the Indiana NRCS Conservation Practice Standard Code 313: Waste Storage Facility, September 2005. October 2014***. Construction of all liquid manure storage facilities approved after the effective date of this article must be certified upon completion by a registered professional engineer on a form provided by the department. The engineer's certification must be kept in the operating record and submitted with the affidavit required by subsection (s).
- (e) In addition to subsection (d), all concrete manure storage facilities must be constructed according to: either of the following design standards:
 - (1) Indiana NRCS Construction Specification, Concrete Construction, May 2015****; and
 - (2) either:
 - (A) MWPS-36: Rectangular Concrete Manure Storages, Second Edition, 2005*****; or
 - (2) (B) TR-9: Circular Concrete Manure Tanks, March 1998*****.

All concrete structures must be constructed according to the Indiana NRCS Construction Specification, Concrete Construction, October 2005****, available online at

http://www.in.nrcs.usda.gov/technical/engineering/ConsSpecifications/pdf/concconstr.pdf.

*Available from MidWest Plan Service, 122 Davidson Hall, Iowa State University, Ames, Iowa 50011-3080.

- (f) All earthen manure storage lagoons utilized for treatment must be constructed according to the Indiana NRCS Conservation Practice Standard Code 359: Waste Treatment Lagoon, September 2005***.
- (g) Manure storage facilities that contain solid manure may not be constructed in sand or gravel soils, Unified Soil Classification of Pt, GW, GP, GM, GC, SW, SP, SM, as described in ASTM D2488-09a Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)******, available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, unless specially designed with an approved liner, in accordance with section 5 of this rule.
- (h) Waste management systems not specifically listed in this section must be designed and constructed in accordance with the requirements of <u>IC 13-18-10-4(b)</u>. The design must be submitted to the department for approval under subsection (a) before construction can commence.
- (i) Pipelines must be constructed according to the Indiana NRCS Conservation Practice Standard Code 634: Waste Transfer, October 2010***.
 - (j) Installation of underground steel storage tanks for manure is prohibited.
 - (k) Plastic and fiberglass tanks and aboveground steel tanks must comply with the following:
 - (1) Tanks must have sufficient strength to withstand design loads.
 - (2) All tanks must be watertight.
 - (3) Tanks used to store any objectionable or hazardous substances must be cleaned to remove any traces of the other substances prior to addition of manure to the tank.
 - (4) Tanks must be designed and installed to ensure the seasonal high water table is maintained below the tank or the tank must be anchored to prevent flotation.
 - (5) Aboveground tanks must have protected shutoff valves for all inlet and outlet pipes.

- (I) Vegetative management systems must be constructed according to the Indiana NRCS Conservation Practice Standard Code 635: Vegetated Treatment Area; October 2008***.
- (m) Constructed wetlands must be constructed according to the Indiana NRCS Conservation Practice Standard Code 656: Constructed Wetland; October 2006. November 2012***.
- (n) Any drainage system to lower a seasonal water table around the base of a waste management system must be equipped with an access point for sampling within fifty (50) feet of the waste management system.
- (o) Any drainage system to lower the seasonal water table around the base of a waste management system must be designed and installed to:
 - (1) effectively collect and drain the ground water;
 - (2) be of adequate size, proper slopes, and proper distance from the waste management system;
 - (3) **if applicable**, be provided with sumps, pumps (including a backup pump), and electricity supply; if applicable;
 - (4) if applicable, have a surface outlet that is at least fifty (50) feet away from the building, and at least:
 - (A) fifty (50) feet from the property line in soils with a permeability of one-half (1/2) inch per hour or less; or
 - (B) twenty (20) feet from the property line in soils with a permeability greater than one-half (1/2) inch per hour; and
 - (5) have a shut-off valve or equivalent.
- (p) Any field tiles or drainage outlets encountered during construction must be cut back at least fifty (50) feet from the edge of a berm or concrete pit or earthen structure and blocked or rerouted in accordance with any applicable local approval requirements.
- (q) The commissioner may incorporate conditions into the approval that require testing to verify that the manure storage facility is consistent with the design and performance standards established in this article.
- (r) The owner/operator shall notify the commissioner in writing two (2) days prior to scheduled construction of a waste management system. If an owner/operator completes construction of an approved waste management system and wishes to utilize that portion prior to finishing construction of the entire facility, multiple notices shall be submitted.
- (s) The applicant shall execute and send to the commissioner an affidavit, under penalty of perjury, that a waste management system was constructed and shall be operated in accordance with the requirements of the approval and this article **as follows:**
 - (1) The owner/operator must shall submit to IDEM, on a form provided by the department, the affidavit within thirty (30) days after the date construction of an approved waste management structure is completed, and prior to the introduction of any animals or manure.
 - (2) The affidavit must be completed, notarized, and returned to IDEM assuring that the waste management system was constructed and shall be operated in accordance with the requirements of the approval.
 - (3) The affidavit must also include identification of what the parts of the waste management system are that were completed at the time of submittal.
 - **(4)** If an owner/operator performs partial construction of an approved facility and wishes to utilize that portion prior to completing construction of the entire facility, multiple affidavits shall must be submitted.
 - **(5)** No portion of a waste management system, including animal feed and similar feedstock storage areas, shall be utilized unless that portion, or a combination of the waste management system for that portion, is completely constructed prior to the introduction of animals and provides a minimum of one hundred eighty (180) days storage for manure, wastewater, and/or and leachate.

*This document is incorporated by reference. Copies may be obtained online at www.gpo.gov or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

**This document is incorporated by reference. Copies may be obtained from the American Society of Agricultural and Biological Engineers, 2950 Niles Road, St. Joseph, Michigan 49085-9659, online at http://www3.abe.iastate.edu/wastemgmt_old/Section%205/ASAE%20D384.2.pdf, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

***These documents are incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://efotg.sc.egov.usda.gov/, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

****This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://www.nrcs.usda.gov/wps/portal/nrcs/detail/in/ technical/engineering/?cid=nrcs144p2_031059, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

*****This document is incorporated by reference. Copies may be obtained from the MidWest Plan Service, 122 Davidson Hall, Iowa State University, Ames, Iowa 50011-3080 or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

*******This document is incorporated by reference. Copies may be obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-12-4</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 11. 327 IAC 19-12-5 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-12-5 Design requirements for liners

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

- Sec. 5. (a) The soil or foundation of a manure storage pond or manure treatment lagoon shall have a maximum specific discharge of 1/16 in 3 /in 2 /day (1.8x10 $^{-6}$ cm 3 /cm 2 /sec). This requirement may be satisfied by soil testing that shows a minimum of three (3) feet of in situ soils that meet the maximum specific discharge criteria. The soil must be over-excavated a minimum of six (6) inches and recompacted to break up the existing macropore structure.
- (b) If there is not at least three (3) feet of in situ soils that meet the maximum specific discharge criteria in subsection (a), a liner must be used. Except for clay liners described in subsection (c), liners used in manure storage facilities must meet any of the following design standards:
 - (1) Indiana NRCS Conservation Practice Standard Code 521A: Pond Sealing or Lining, Flexible Membrane, October 2006. **2013*.**
 - (2) Indiana NRCS Conservation Practice Standard Code 521B: Pond Sealing or Lining, Soil Dispersant, October 2006. **2011*.**
 - (3) Indiana NRCS Conservation Practice Standard Code 521C: Pond Sealing or Lining, Bentonite Sealant, October 2006. 2011*.

(c) Clay liners shall be a minimum of one (1) foot thick and have a maximum specific discharge of 1/16 in³/in²/day (1.8x10⁻⁶cm³/cm²/sec).

*These documents are incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://efotg.sc.egov.usda.gov/ and http://www.in.nrcs.usda.gov/, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-12-5</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 12. 327 IAC 19-14-3 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-14-3 Manure application rates

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30

- Sec. 3. (a) The owner/operator of a CFO shall have the results of a soil test prior to any land application events, as well as a manure test. Soil and manure tests shall be conducted in accordance with the manure management plan that is submitted to the commissioner to meet the requirement in 327 IAC 19-7-1(c)(5).
- (b) The application rate of nitrogen (N) must not exceed the N requirements based on the recommendations in the following documents for current or planned crops of the upcoming growing season as documented in the operating record:
 - (1) Purdue University Cooperative Extension Service publication ID-101: Animal Manure as a Plant Nutrient Resource, February 2001*. available from the Cooperative Extension Service, Purdue University, West Lafayette, Indiana 47907; or
 - (2) Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat and Alfalfa, Extension Bulletin E-2567 (New), July 1995**. available from the Cooperative Extension Service, Purdue University, West Lafayette, Indiana 47907;

for current or planned crops of the upcoming growing season as documented in the operating record. Minimum N loss estimates must be used unless otherwise justified. This justification must be kept in the operating record.

- (c) For the first manure application only, nutrient content of manure from facilities constructed after the effective date of this article shall must be:
 - (1) based on either:
 - (1) (A) manure test values as described in 327 IAC 19-7-5(d); or
 - (2) (B) values in the NRCS Agricultural Waste Management Field Handbook (AWMFH) Chapter 4, March 2008***; available from the Natural Resources Conservation Service, West National Technology Support Center, 1201 NE Lloyd Boulevard, Suite 1000, Portland, OR 97232 or online at http://policy.nrcs.usda.gov/OpenNonWebContent.aspx?content=17768.wba and
 - (2) applied at fifty percent (50%) of the rate listed in subsection (b).

For all subsequent manure application events, nutrient content values must be based on manure test values.

- (d) As of the effective date of this article, the following must comply with the phosphorus application rates in Table 1:
 - (1) Large CAFOs, as defined in 40 CFR 122.23(b)****, that were approved for initial construction after February 13, 2003.
 - (2) CAFOs with a NPDES permit.
 - (3) CFOs approved for initial construction after the effective date of this article.

Table 1				
PHOSPHORUS APPLICATION RATES FOR LARGE CAFOS APPROVED FOR INITIAL CONSTRUCTION AFTER FEBRUARY 13, 2003 AND CFOS APPROVED FOR INITIAL CONSTRUCTION AFTER THE EFFECTIVE DATE OF THIS ARTICLE				
Soil test level (ppm)	Application rate			
0-50	N based			

51-100	1.5 x P crop removal	
101-200	1.0 x P crop removal	
201+	0	

(e) Beginning with the effective date of this article, CFOs and CAFOs not listed in subsection (d) must comply with the phosphorus application rates in Table 2:

Table 2					
PHOSPHORUS APPLICATION RATES FOR ALL OTHER CFOS AND CAFOS					
Soil test level	YEAR ¹				
(ppm)	2012-2013	2014-2015	2016-2017	2018+	
0-50	N based	N based	N based	N based	
51-100	1.5 x P crop removal	1.5 x P crop removal	1.5 x P crop removal	1.5 x P crop removal	
101-200	1.0 x P crop removal	1.0 x P crop removal	1.0 x P crop removal	1.0 x P crop removal	
201-250	0.9 x P crop removal	0.75 x P crop removal	0.75 x P crop removal	0	
251-275	0.9 x P crop removal	0.75 x P crop removal	0.5 x P crop removal	0	
276-300	0.9 x P crop removal	0.75 x P crop removal	0.25 x P crop removal	0	
301-350	0.7 x P crop removal	0.5 x P crop removal	0	0	
351-400	0.7 x P crop removal	0.25 x P crop removal	0	0	
401+	0	0	0	0	

¹ Multiple years of phosphorus may be applied as long as the net average of phosphorus does not exceed the amounts indicated in Table 2.

- (f) The following land application information must be added to the operating record as needed in accordance with required time frames established in this article and <u>IC 13-18-10</u> and must be maintained and updated in the operating record:
 - (1) Expected crop yields.
 - (2) The date or dates manure, litter, or process wastewater is applied to each field.
 - (3) Precipitation events at the time of application and for twenty-four (24) hours prior to and following application.
 - (4) Test methods used to sample and analyze manure, litter, process wastewater, and soil.
 - (5) Results from manure, litter, process wastewater, and soil sampling.
 - (6) An explanation of the basis for determining manure, litter, and process wastewater application rates.
 - (7) Calculations showing the manure nitrogen and phosphorus to be applied to each field.
 - (8) Total amount of nitrogen and phosphorus actually applied to each field, including documentation of calculations for the total amount applied.
 - (9) The method used to apply the manure, litter, or process wastewater.
 - (10) The date or dates of manure, litter, and process wastewater application equipment inspection.
 - (11) USDA soil survey maps of currently available land application sites.
 - (12) The type of manure applied.
 - (13) A written conservation plan with an explanation of conservation practices used must be completed and implemented prior to land application on highly erodible land, if required in section 4(j) of this rule. CAFOs with a NPDES permit must have a nutrient management plan prior to land application on highly erodible land.

*These documents are incorporated by reference. Copies may be obtained from the Cooperative Extension Service, Purdue University, West Lafayette, Indiana 47907, online at https://www.extension.purdue.edu/extmedia/id/id-101.html, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

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***This document is incorporated by reference. Copies may be obtained from the Natural Resources Conservation Service, West National Technology Support Center, 1201 NE Lloyd Boulevard, Suite 1000, Portland, OR 97232, online at ftp://ftp.wcc.nrcs.usda.gov/wntsc/AWM/handbook/ch4.pdf, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

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(Water Pollution Control Division; <u>327 IAC 19-14-3</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012; errata filed Nov 9, 2012, 11:09 a.m.: <u>20121128-IR-327120607ACA</u>)

SECTION 13. 327 IAC 19-14-4 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-14-4 Manure application activities

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 4. (a) Manure that is staged at the manure application site for more than seventy-two (72) hours must be:

- (1) covered or adequately bermed to prevent run-on or runoff;
- (2) applied to the site within ninety (90) days;
- (3) set back from property lines and public roads one hundred (100) feet; and
- (4) set back from residential buildings four hundred (400) feet.
- (b) Staging of manure at the manure application site is prohibited:
- (1) within three hundred (300) feet of surface water, drainage inlets, including water and sediment control basins, or water wells unless there is a:
 - (A) barrier: or
 - (B) surface gradient that contains or directs any contaminated runoff away from the waters of the state, drainage inlets, including water and sediment control basins, or water wells;
- (2) on any area with a slope greater than six percent (6%), unless run-on and runoff is controlled;
- (3) on any standing water or waterway; or
- (4) in any flood plain for more than seventy-two (72) hours.
- (c) Solid manure, litter, or contaminated bedding may not be placed outside of any approved manure storage facility at the CFO overnight for more than twenty-four (24) hours or during inclement weather.
 - (d) The application of manure is prohibited in the following conditions:
 - (1) Saturated ground.
 - (2) Manure applied from manure application equipment operating on a public road.
- (e) For large CAFOs, as defined in 40 CFR 122.23(b)*, and CAFOs with a NPDES permit, surface application of manure, litter, or process wastewater to frozen or snow covered ground is prohibited, unless allowed under a NPDES permit obtained by the CAFO. Injection or incorporation of manure into the soil on the same day is not prohibited.
- (f) CFOs not described in subsection (e) may surface apply manure on frozen or snow covered ground in accordance with subsections (g) through (i). Injection or incorporation of manure into the soil on the same day is not prohibited.
- (g) For purposes of this section, an emergency application is only allowed when there is an immediate need to apply manure to comply with the manure storage requirement of 327 IAC 19-12-4 due to unforeseen circumstances affecting the storage of the liquid manure **as follows**:

- (1) The unforeseen circumstances must be beyond the control of the owner of the CFO, including: but not limited to.
 - (A) natural disaster;
 - (B) extreme weather conditions; or
 - (C) equipment failure; or
 - (D) structural failure.
- (2) The need to apply manure to maintain required storage capacity due to improper design or management of the manure storage facility, including but not limited to, a failure to properly account for the volume of manure to be stored shall is not be considered an emergency.
- (h) The following requirements apply to all emergency land application of manure on frozen or snow covered ground:
 - (1) The person must notify the appropriate department field office by telephone prior to the application.
 - (2) The following information must be provided or the notification will is not be considered complete:
 - (A) The CFO owner's name.
 - (B) The facility name.
 - (C) The facility ID number.
 - (D) The reason for emergency application.
 - (E) The date of land application.
 - (F) The estimated number of gallons of manure to be applied.
 - (G) The location of the application fields.

The owner must document the emergency as well as actions taken to abate it and keep that information in the CFO's operating record.

- (3) The manure must be applied in accordance with all land application requirements of this rule and additionally, may only be applied on a field where the following conditions are met:
 - (A) No application to land with a slope greater than two percent (2%), unless there is forty percent (40%) crop residue or vegetated crop cover on the land application site.
 - (B) No application in a flood plain.
 - (C) Application may not be closer than two hundred (200) feet from any surface water.
 - (D) The application rate for all farms can be no more than a total of fifty percent (50%) of the agronomic rate, based on Table 1 of section 3 of this rule.
- (4) Once the emergency is abated, land application of manure must cease to frozen or snow covered ground.
- (i) For a CFO that is not a large CAFO with one hundred twenty (120) days or less of approved storage capacity, the commissioner may authorize application of manure to frozen or snow-covered ground on a case-by-case basis. The CFO must:
 - (1) provide proof of available storage capacity to the commissioner; and
 - (2) comply with subdivision subsection (h)(3).

This authorization terminates when a discharge to waters of the state or a water quality violation is documented.

- (j) Manure must not be applied to highly erodible land unless:
- (1) the land has forty percent (40%) residue protection or crop cover; or
- (2) it is applied in accordance with a conservation plan described in section 3(f)(13) of this rule.
- (k) Any manure application, except those described in subsection (I), that causes a water quality violation:
- (1) is a violation of this article; and
- (2) may result in enforcement action.
- (I) Subsection (k) does not apply to organic or inorganic matter that consists of fertilizer material that:
- (1) is contained in:
 - (A) runoff from a storm event; or
 - (B) irrigation return flow; and
- (2) enters waters of Indiana the state as a result of land application of the fertilizer material that is:

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- (A) for agricultural purposes;
- (B) done at appropriate agronomic rates for proper nutrient uptake in the field;
- (C) applied in accordance with this rule; and
- (D) documented.

*This document is incorporated by reference. Copies may be obtained online at www.gpo.gov or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-14-4</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 14. 327 IAC 19-14-6 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-14-6 Manure application setbacks

Authority: <u>IC 13-14-8-7</u>; <u>IC 13-15-2-1</u>; <u>IC 13-18-10-4</u>

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

- Sec. 6. (a) Except as otherwise provided under this section, application of manure and process wastewater must be in accordance with the setbacks in Table A: 1: Manure Application Setback Distances, from Indiana NRCS conservation practice standard 633: Waste Utilization, October 2007 Conservation Practice Standard 590: Nutrient Management, October 2013*, as follows:
 - (1) All setback distances must be measured from the edge of the area of actual placement of manure or process wastewater on the land.
 - (2) The property line setback distances in this subsection may be waived in writing by the owner of the adjoining property.
 - (3) The setback is the width of the filter strip if a properly designed and maintained filter strip of at least fifty (50) feet in width is located between the application site and any of the following:
 - (A) Surface water.
 - (B) Any known private well.
 - (C) The surface opening or lowest point of any sinkhole.
 - (D) Any drainage inlet, including water and sediment control basins.
 - (4) The setback is ten (10) feet if a gradient barrier is located between the application site and any of the following:
 - (A) Surface water.
 - (B) Any known well.
 - (C) The surface opening or lowest point of any sinkhole.
 - (D) Any drainage inlet, including water and sediment control basins.
- (b) When planning land application, To ensure that manure and process wastewater are not applied before, during, or immediately following a rain event that, when combined with soil conditions, would likely result in runoff, the owner/operator must take into account the:
 - (1) weather forecast and likelihood of precipitation events for the twenty-four (24) hour period before and after the application; and
 - (2) site soil conditions.

to assure that manure and process wastewater are not applied before, during, or immediately following a rain event that, when combined with soil conditions, would likely result in runoff.

- (c) Land application sites must be inspected to identify any field tile outlets, grassed waterways, and surface water conveyance channels under or immediately bordering the land application site **as follows:**
 - (1) Monitoring of identified field tile outlets, waterways, and surface water conveyance channels **must occur** during and immediately following land application of the manure or process wastewater based on:
 - (1) (A) color;
 - (2) **(B)** flow;
 - (3) (C) volume and volume change; and
 - (4) (D) odor and change in odor.

must occur during and immediately following land application of the manure or process wastewater.

- (2) If there is evidence of manure or process wastewater discharging from the field tile outlet, the land application must cease immediately and the flow stopped or captured. Any flow that is captured shall must be either land applied or returned to an approved manure storage facility.
- (d) The monitoring activities conducted in accordance with subsection (c) must be documented and placed in

the operating record.

*This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://efotg.sc.egov.usda.gov/ and http://www.in.nrcs.usda.gov/, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-14-6</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

SECTION 15. 327 IAC 19-15-2 IS AMENDED TO READ AS FOLLOWS:

327 IAC 19-15-2 General requirements

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

- Sec. 2. (a) The owner/operator of a CFO that plans to decommission a manure storage facility shall do the following:
 - (1) Decommission the manure storage facility in accordance with the requirements in this section prior to expiration of the approval.
 - (2) Continue to maintain the manure storage facility in accordance with the requirements of this article until the manure is removed.
 - (3) Have all the manure removed from the manure storage facility to the extent practical.
 - (4) Have the manure:
 - (A) applied to the land in accordance with 327 IAC 19-14; or
 - (B) managed in accordance with this article and applicable state and federal laws.
 - (5) Follow the requirements in the Indiana NRCS Conservation Practice Standard Code 360, Closure of Waste Impoundments, October 2004, November 2012*, if applicable.
 - (6) Have all associated appurtenances and conveyance structures removed from uncovered manure storage facilities.
 - (7) Recalculate the storage capacity for the CFO.
 - (8) Notify the department:
 - (A) before demolishing or converting the use of any manure storage facility; and
 - (B) of the intended future use of the manure storage facility if the manure storage facility is to be converted to another use.
- (b) The owner/operator shall submit a certification to the commissioner within thirty (30) days of completing the requirements in this section that states compliance with the requirements in this section.
- (c) If deemed necessary to protect human health or the environment, the commissioner may require additional decommissioning activities based on:
 - (1) surface or ground water contamination;
 - (2) evidence of leakage, seepage, manure releases, or spills; or
 - (3) other criteria related to protection of human health or the environment.

The commissioner shall provide written documentation describing the basis for any required additional activities.

*This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at http://efotg.sc.egov.usda.gov/ and http://www.in.nrcs.usda.gov/, or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Water Pollution Control Division; <u>327 IAC 19-15-2</u>; filed Feb 6, 2012, 2:58 p.m.: <u>20120307-IR-327090615FRA</u>, eff Jul 1, 2012)

Notice of Public Hearing

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